

Clean Copy of Amended Claims:

Please cancel claims 12-19, 23, 25-28 and 31-34.

Please amend claims 6, 8, 9, and 10.

Please add new claims 36-48 as shown below:

B¹
6. (AMENDED) The corn plant of claim 2, wherein said plant is detasseled.

B₂
8. (AMENDED) The tissue culture of claim 7, the cells or protoplasts of said cells having been isolated from a tissue selected from the group consisting of protoplast and calli, wherein the regenerable cells are derived from meristematic cells, leaves, pollen, embryo, roots, root tip, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

9. (AMENDED) A corn plant regenerated from the tissue culture of claim 7, capable of expressing all the morphological and physiological characteristics of inbred corn plant MNI1, wherein a sample of said seed has been deposited under ATCC Accession number _____.

10. (AMENDED) A corn plant with all the morphological and physiological characteristics of inbred corn plant MNI1, wherein said corn plant is produced by a tissue culture process obtaining the corn plant of claim 5 as the starting material for said process.

B₃
36. (NEW) A hybrid corn seed wherein fifty percent of its genetic material originates from the pollen of claim 3.

37. (NEW) A hybrid corn seed wherein fifty percent of its genetic material originates from the ovule of claim 4.

38. (NEW) A method for producing a transgenic corn plant comprising transforming the corn plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group consisting of: herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, male sterility and corn endosperm with improved nutritional quality.

39. (NEW) A transgenic corn plant produced by the method of claim 38.

40. (NEW) A method of producing a male sterile corn plant comprising transforming the corn plant of claim 2 with a transgene that confers male sterility.

41. (NEW) A male sterile corn plant produced by the method of claim 40.

42. (NEW) A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers herbicide resistance.
43. (NEW) A herbicide resistant corn plant produced by the method of claim 42.
44. (NEW) A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers insect resistance.
45. (NEW) An insect resistant corn plant produced by the method of claim 44.
46. (NEW) A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers disease resistance.
47. (NEW) A disease resistant corn plant produced by the method of claim 46.
48. (NEW) The corn plant of claim 5, further comprising a single gene conversion where the gene confers a characteristic selected from the group consisting of: male sterility, herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease and corn endosperm quality.
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